

layer thickness of 8 nm-60 nm.

16. A display according to claim 1, wherein said alignment layers each have a layer thickness of 10 nm-25 nm.

17. A display according to claim 1, wherein said display has a nematic phase range of at least -20° to 70° , a birefringence of 0.100 to 0.180, a threshold voltage of less than or equal to 1.8 V, and a steepness value of the electro-optical characteristic line of less than or equal to 1.100.

18. A display according to claim 1, wherein said alignment layers each have a refractive index of 1.550 to 1.800.

19. A display according to claim 1, wherein said liquid-crystal layer having a surface tilt angle of 3° - 15° .

20. An electro-optical liquid-crystal display comprising a layer of liquid-crystal medium between two substrates with alignment layers on inside surfaces of each of said substrates; the liquid-crystal layer having a twist angle, from one substrate to the other, of 110° - 360° ; the liquid-crystal layer having a surface tilt angle of 2° - 20° ; each of said alignment layers having a thickness of 3 nm-150 nm; and at least one of said alignment layers is an organic layer.

21. An electro-optical liquid-crystal display comprising a layer of liquid-crystal medium between two substrates with alignment layers on inside surfaces of each of said substrates; the liquid-crystal layer having a twist angle, from one substrate to the other, of 110° - 360° ; the liquid-crystal layer having a surface tilt angle of 2° - 20° ; and each of said alignment layers comprises an organic layer and each of said alignment layers has a thickness of 3 nm-150 nm.